Author Index of Volume 149

Biographic notes abaut authors concerned can be found on p. 395.

Ajayi, O. O., 221
Akagaki, T., 353

Bednar, M. S., 297
Benabdallah, H., 341
Berthier, Y., 325
Blau, P. J., 27
Boness, R. J., 41
Briscoe, B. J., 233
Burstein, G. T., 73

Cai, B. C., 269, 279
Clark, H. McI, 55

Deckman, D. E., 155
DeVore, C. E., 27

Ehni, P. D., 375
Erck, R. A., 221
Erdemir, A., 221
Everson, M. P., 313

Fayeulle, S., 375
Fenske, G. R., 221
Fiset, M., 187

Gangopadhyay, A. K., 313
Gao, C., 297
de Gee, A. W. J., 255
Godet, M., 325

Hawthorne, H. M., 169
Hsu, S. M., 155
Hutchings, I. M., 73, 85, 99

Jahanmir, S., 155
Jaklevic, R. C., 313

Kim, D. E., 199
Kuhlmann-Wilsdorf, D., 269, 279, 297

Lancaster, J., 325
Lynn, R. S., 55

McBride, S. L., 41
McConnell, B. D., 241
Mens, J. W. M., 255
Moslehy, F. A., 1, 13

Nelson, R. B., 269, 279
Nichols, F. A., 221

Poggie, R. A., 209
Prasad, S. V., 241

Rice, S. L., 1, 13
Richards, H., 341
Rigney, D. A., 353

Shipway, P. H., 85
Simard, D., 187
Singer, I. L., 375
Sparks, A. J., 99
Stolarski, T. A., 233
Suh, N. P., 199
Sundararajan, G., 111, 129

Turenne, S., 187

Vincent, L., 325

Wert, J. J., 209
Willermet, P. A., 313
Wong, K. K., 55

Yelle, H., 341

Zhang, J., 1, 13
Zu, J. B., 73

Elsevier Sequoia, Lausanne

Subject Index of Volume 149

Abrasive particles
the influence of particle properties on the erosive wear of sintered boron carbide, 85
Abrasive wear
adhesive and abrasive wear studies using acoustic emission techniques, 41
Acoustic emission
adhesive and abrasive wear studies using acoustic emission techniques, 41
Adhesive wear
adhesive and abrasive wear studies using acoustic emission techniques, 41
Adsorbed films
on the tribological behavior of adsorbed layers, especially moisture, 297
α-alumina
wear mechanisms of α-alumina lubricated with a paraffin oil, 155
Aluminium
a comparative study of the slurry erosion and free-fall particle erosion of aluminium, 73
simulation of solid lubricants and contacts spots between bridgman anvils. II: Experimental results on f.c.c. metals and new insights gained, 279

Boron carbide
the influence of particle properties on the erosive wear of sintered boron carbide, 85

Ceramics
on the role of interfacial debris morphology in a conforming contact tribosystem, 169
the influence of particle properties on the erosive wear of sintered boron carbide, 85
the role of soft (metallic) films in the tribological behavior of ceramic materials, 221
Conforming contact
on the role of interfacial debris morphology in a conforming contact tribosystem, 169

Contact spots
simulation of solid lubricants and contact spots between bridgman anvils. Part I: A new high pressure apparatus, 269
simulation of solid lubricants and contact spots between bridgman anvils. Part II. Experimental results on f.c.c. metals and new insights gained, 279
Contact zone kinematics
the influence of contact zone kinematics on wear process of polymers, 233
Copper
simulation of solid lubricants and contact spots between bridgman anvils. Part II. Experimental results on f.c.c. metals and new insights gained, 279
sliding friction and wear of metals in vacuum, 353

Debris formation
friction and wear behavior of TiN in air: the chemistry of transfer films and debris formation, 375
Dry sliding
simulation of solid lubricants and contact spots between bridgman anvils. Part I. A new high pressure apparatus, 269

Erosion
a comprehensive model for the solid particle erosion of ductile materials, 111
transitions in the erosive wear behaviour of a glass ceramic, 99

Free-fall particle erosion
a comparative study of the slurry erosion and free-fall particle erosion of aluminium, 73
Friction
a model for friction in quasi-steady-state sliding
Part I. Derivation, 1
a model for friction in quasi-steady-state sliding
Part II. Numerical results and discussion, 13

Elsevier Sequoia, Lausanne

friction and wear behavior of 18 polymers in contact with steel in environments of air and water, 255
on microscopic mechanisms of friction and wear, 199

Glass ceramics
transitions in the erosive wear behaviour of a glass ceramic, 99
Gold
simulation of solid lubricants and contact spots between bridgman anvils. Part II. Experimental results on f.c.c. metals and new insights gained, 279
Graphite
tribology of aluminum metal-matrix composites: lubrication by graphite, 241

High density polyethylene
friction and wear of polyethylene–nylon blends, 341

Impact angle
the depth of plastic deformation beneath eroded surfaces: the influence of impact angle and velocity, particle shape and material properties, 129
Interfacial debris morphology
on the role of interfacial debris morphology in a conforming contact tribosystem, 169
Iron
sliding friction and wear of metals in vacuum, 353

Kinematics
the influence of contact zone kinematics on wear process of polymers, 233

Lubrication
tribology of aluminum metal-matrix composites: lubrication by graphite, 241
wear mechanisms of α-alumina lubricated with a paraffin oil, 155

Machining
machining and wear relationships in an ordered intermetallic alloy, 27
Metal matrix composites
influence of structural parameters on the slurry erosion resistance of squeeze-cast metal matrix composites, 187
tribology of aluminum metal-matrix composites: lubrication by graphite, 241
Metallics
a comprehensive model for the solid particle erosion of ductile materials, 111
Micromechanisms
a comprehensive model for the solid particle erosion of ductile materials, 111
on microscopic mechanisms of friction and wear, 199
Moisture
on the tribological behavior of adsorbed layers, especially moisture, 297
Molybdenum
sliding friction and wear of metals in vacuum, 353

Nickel
sliding friction and wear of metals in vacuum, 353
Nickel–aluminide alloy
machining and wear relationships in an ordered intermetallic alloy, 27

Particle shape
the depth of plastic deformation beneath eroded surfaces: the influence of impact angle and velocity, particle shape and material properties, 129
Particle size
on the particle size effect in slurry erosion, 55
Plastic deformation
the depth of plastic deformation beneath eroded surfaces: the influence of impact angle and velocity, particle shape and material properties, 129
Polyethylene–nylon blends
friction and wear of polyethylene–nylon blends, 341
Polymeric materials
on the role of interfacial debris morphology in a conforming contact tribosystem, 169
Polymers
friction and wear behavior of 18 polymers in contact with steel in environments of air and water, 255
the influence of contact zone kinematics on wear process of polymers, 233

Quasi-steady-state
a model for friction in quasi-steady-state sliding
Part I. Derivation, 1
a model for friction in quasi-steady-state sliding
Part II. Numerical results and discussion, 13

Residual stress
the influence of surface finish and strain hardening of near-surface residual stress and the friction and wear behavior of A2, D2 and CPM-10V tool steels, 209

Scanning tunnelling microscopy
observation of the wear surface by scanning tunneling microscopy, 313
Silicon nitride
observation of the wear surface by scanning tunneling microscopy, 313
Silver
simulation of solid lubricants and contact spots between bridgman anvils. Part II. Experimental results on f.c.c. metals and new insights gained, 279
Silver films
the role of soft (metallic) films in the tribological behavior of ceramic materials, 221
Sliding
a model for friction in quasi-steady-state sliding
Part I. Derivation, 1
a model for friction in quasi-steady state sliding
Part II. Numerical results and discussion, 13
Sliding friction
machining and wear relationships in an ordered intermetallic alloy, 27
sliding friction and wear of metals in vacuum, 353
the influence of surface finish and strain hardening of near-surface residual stress and the friction and wear behavior of A2, D2 and CPM-10V tool steels, 209
Slurry erosion
a comparative study of the slurry erosion and free-fall particle erosion of aluminium, 73
on the particle size effect in slurry erosion, 55
Slurry erosion resistance
influence of structural parameters on the slurry erosion resistance of squeeze-cast metal matrix composites, 187
Soft films
the role of soft (metallic) films in the tribological behavior of ceramic materials, 221
Solid lubricants
simulation of solid lubricants and contact spots between bridgman anvils. Part I. A new high pressure apparatus, 269
simulation of solid lubricants and contact spots between bridgman anvils. Part II. Experimental results on f.c.c. metals and new insights gained, 279
Solid particle erosion
a comprehensive model for the solid particle erosion of ductile materials, 111
the depth of plastic deformation beneath eroded surfaces: the influence of impact angle and velocity, particle shape and material properties, 129
Squeeze casting
influence of structural parameters on the slurry erosion resistance of squeeze-cast metal matrix composites, 187
Steel
friction and wear behavior of 18 polymers in contact with steel in environments of air and water, 255
on the particle size effect in slurry erosion, 55
the influence of surface finish and strain hardening of near-surface residual stress and the friction and wear behavior of A2, D2 and CPM-10V tool steels, 209
Surface finishing method
the influence of surface finish and strain hardening of near-surface residual stress and the friction and wear behavior of A2, D2 and CPM-10V tool steels, 209

TiN coatings
friction and wear behavior of TiN in air: the chemistry of transfer films and debris formation, 375

Transfer films
friction and wear behavior of TiN in air: the chemistry of transfer films and debris formation, 375
Tribological behavior
on the tribological behavior of adsorbed layers, especially moisture, 297
the role of soft (metallic) films in the tribological behavior of ceramic materials, 221

Vacuum
sliding friction and wear of metals in vacuum, 353
Velocity
The depth of plastic deformation beneath eroded surfaces: the influence of impact angle and velocity, particle shape and material properties, 129

Wear
on microscopic mechanisms of friction and wear, 199
Wear behavior
friction and wear behavior of 18 polymers in contact with steel in environments of air and water, 255
Wear modelling
wear modelling: using fundamental understanding or practical experience?, 325